

L Number	Hits	Search Text	DB	Time stamp
1	23	tcheou-eric.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/21 15:45
2	1	(tablet\$6 or pellet\$6 or briquet\$6 or compressed or compacted or solid or shaped or body or bodies) near6 (detergent or deterative or tenside) same (base or granul\$6 or agglomerat\$4 or mixture) near8 (spray\$3 or contact\$3 or overspray\$3 or add\$5 or mix\$4) near6 (nonionic or neodol or tergitol or ethoxy\$5 or eo or alkoxy\$5) and (cyclohexanediol or hexanediol or pentanediol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/21 15:58
3	53	(tablet\$6 or pellet\$6 or briquet\$6 or compressed or compacted or solid or shaped or body or bodies) near6 (detergent or deterative or tenside) same (base or granul\$6 or agglomerat\$4 or mixture) same (spray\$3 or contact\$3 or overspray\$3 or add\$5 or mix\$4) same (nonionic or neodol or tergitol or ethoxy\$5 or eo or alkoxy\$5) and (cyclohexanediol or hexanediol or pentanediol or diol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/21 16:20
4	40	(tablet\$6 or pellet\$6 or briquet\$6 or compressed or compacted or solid or shaped or body or bodies) near6 (detergent or deterative or tenside) same (cyclohexanediol or hexanediol or pentanediol or diol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/21 16:35
5	1	(tablet\$6 or pellet\$6 or briquet\$6 or compressed or compacted or solid or shaped or body or bodies) near6 (detergent or deterative or tenside) same ethoxylated adj6 diamine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/21 16:37
6	100	(tablet\$6 or pellet\$6 or briquet\$6 or compressed or compacted or solid or shaped or body or bodies) near6 (detergent or deterative or tenside) and ethoxylated adj6 diamine	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/21 16:48
7	14	(tablet\$6 or pellet\$6 or briquet\$6 or compressed or compacted or solid or shaped or body or bodies) near6 (detergent or deterative or tenside) and cyclohexanediol	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/21 16:51
8	32	(tablet\$6 or pellet\$6 or briquet\$6 or compressed or compacted or solid or shaped or body or bodies) same (detergent or deterative or tenside) and cyclohexanediol	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/21 17:10
9	405	(tablet\$6 or pellet\$6 or briquet\$6 or compressed or compacted or solid or shaped or body or bodies) same (detergent or deterative or tenside) and (hexanediol or pentanediol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/21 17:11
10	13	(tablet\$6 or pellet\$6 or briquet\$6 or compressed or compacted or solid or shaped or body or bodies) same (detergent or deterative or tenside) same (hexanediol or pentanediol)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/21 17:13
11	144	(tablet\$6 or pellet\$6 or briquet\$6 or compressed or compacted or solid or shaped or body or bodies) same (detergent or deterative or tenside) same (agglomerat\$4 or nontower or extrud\$5) same nonionic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/21 17:14
12	4	(tablet\$6 or pellet\$6 or briquet\$6 or compressed or compacted or solid or shaped or body or bodies) same (detergent or deterative or tenside) same (agglomerat\$4 or nontower or extrud\$5) same nonionic same densit\$3 near8 (size or diameter or mesh or seive or sieve)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/06/21 17:15

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	<input type="checkbox"/>	<input type="checkbox"/>	US 4642391 A	19870210	10	High molecular weight products	568/624

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	521/174; 528/76; 528/77; 568/620; 568/623; 568/679; 568/680		Rogier, Edgar R.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DERWENT-ACC-NO: 1993-037404

DERWENT-WEEK: 199724

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TITLE: Prepn. of solid washing and cleaning compsn. with high
bulk wt. - by combining solid anionic surfactant, builder
and alkali with liq. mixt. of nonionic tenside and
structure breaker e.g. polyethylene glycol!

INVENTOR: JACOBS, J; KUEHNE, N ; PAWELCZYK, H ; VOGT, G

PATENT-ASSIGNEE: HENKEL KGAA[HENK]

PRIORITY-DATA: 1991DE-4124701 (July 25, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 4124701 A1	January 28, 1993	N/A	008	C11D 011/00
ES 2098520 T3	May 1, 1997	N/A	000	C11D 017/06
WO 9302176 A1	February 4, 1993	G	.031	C11D 017/06
EP 595946 A1	May 11, 1994	G	000	C11D 017/06
JP 06509369 W	October 20, 1994	N/A	008	C11D 017/06
EP 595946 B1	March 12, 1997	G	013	C11D 017/06
DE 59208196 G	April 17, 1997	N/A	000	C11D 017/06

DESIGNATED-STATES: JP KR US AT BE CH DE DK ES FR GB GR IT LU MC NL
SE AT BE CH
DE DK ES FR GB GR IT LI LU MC NL AT BE CH DE ES FR GB IT LI NL

CITED-DOCUMENTS: EP 208534; EP 337330 ; EP 402112 ; US 3849327 ; WO
9102047

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
DE 4124701A1	N/A	1991DE-4124701	July 25, 1991
ES 2098520T3	N/A	1992EP-0916049	July 16, 1992
ES 2098520T3	Based on	EP 595946	N/A

WO 9302176A1	N/A	1992WO-EP01616	July 16, 1992
EP 595946A1	N/A	1992EP-0916049	July 16, 1992
EP 595946A1	N/A	1992WO-EP01616	July 16, 1992
EP 595946A1	Based on	WO 9302176	N/A
JP 06509369W	N/A	1992WO-EP01616	July 16, 1992
JP 06509369W	N/A	1993JP-0502585	July 16, 1992
JP 06509369W	Based on	WO 9302176	N/A
EP 595946B1	N/A	1992EP-0916049	July 16, 1992
EP 595946B1	N/A	1992WO-EP01616	July 16, 1992
EP 595946B1	Based on	WO 9302176	N/A
DE 59208196G	N/A	1992DE-0508196	July 16, 1992
DE 59208196G	N/A	1992EP-0916049	July 16, 1992
DE 59208196G	N/A	1992WO-EP01616	July 16, 1992
DE 59208196G	Based on	EP 595946	N/A
DE 59208196G	Based on	WO 9302176	N/A

INT-CL (IPC): C11D001/83, C11D003/20, C11D011/00, C11D017/00, C11D017/06

ABSTRACTED-PUB-NO: DE 4124701A

BASIC-ABSTRACT:

In prepn. of solid washing by combining (a) anionic tensides, builders and alkalisng agents as solid components, and (b) notensides as liq. components, with simultaneous or later shaping and drying, the notensides are used in admixture with (c) a structure breaker, in ratio by wt. of (b):(c) of 10-1:1.

(a) The anionic tensides are pref. solids, liqs. or pastes. (b) The notensides are ethoxylates of 8-20C aliphatic alcohols with 1-15 EO. The tenside content is 20-45 wt.%, pref. 5-40% (8-35%) of anionic tenside and 1-15% (2-10%) of notenside, in ratio by wt. of anionic:nonionic tenside of at least 1:1 (2-6:1). (c) The structure breaker is polyethylene glycol and/or polypropylene glycol and/or (di)sulphates and/or (di)sulphosuccinates of these.

ADVANTAGE - Dissolution is more rapid at 15-60 deg.C, and processing is simplified

ABSTRACTED-PUB-NO: EP 595946B

EQUIVALENT-ABSTRACTS:

A process for the prodn. of solid detergents of high bulk density by combining solid and liq. detergent raw materials with simultaneous or subsequent shaping and opt. drying excluding spray drying, anionic surfactants, builders and alkalis agents being used as solid constituents and nonionic surfactants being used as liq. constituents, characterised in that, to improve dissolving behaviour and to facilitate incorporation, the liq. nonionic surfactants are used in the form of an intimate mixt. with a structure breaker selected from the gp. of lower polyalkylene glycols derived from linear or branched glycols contg. 2 to 6 carbon atoms, sulphates and disulphates of it, water-soluble salts of mono- and/or disulphosuccinates of lower polyalkylene glycols or mixts of it, adducts of about 20 to 80 moles of ethylene oxide with 1 mole of an aliphatic alcohol essentially contg. 8 to 20 carbon atoms, ethoxylated vicinal internal alkanediols or alkane-1,2-diols contg. 8 to 18 carbon atoms and 4 to 15 moles of ethylene oxide per mole of diol, modified nonionic surfactants contg. a terminal acid group, alkylene glycol monoalkyl ethers corresp. to the general formula $RO(CH_2CH_2O)_nH$ in which R is a gp. contg. 2 to 8 carbon atoms and n is a number of 1 to 8, and water in a ratio by wt. of liq. nonionic surfactant to structure breaker of 10:1 to 1:2.

CHOSEN-DRAWING: Dwg.0/0 Dwg.0/0

TITLE-TERMS: PREPARATION SOLID WASHING CLEAN COMPOSITION HIGH BULK WEIGHT

COMBINATION SOLID ANION SURFACTANT BUILD ALKALI LIQUID MIXTURE

NONIONIC STRUCTURE BREAKER POLYETHYLENE POLYGLYCOL

DERWENT-CLASS: A97 D16 D25 E17

CPI-CODES: A12-W12A; A12-W12B; D11-D03; E10-H01D;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

H4 H402 H482 H5 H581 H582 H583 H584 H589 H8

M280 M312 M313 M321 M322 M323 M331 M332 M342 M383

M392 M393 M416 M620 M781 M782 M903 M904 Q273

Markush Compounds

199305-A3601-M 199305-A3601-U

Chemical Indexing M3 *02*

Fragmentation Code

J0 J012 J1 J172 K0 K4 K431 K499 M280 M312